

Form PTO-1449		U.S. Department of Commerce Patent and Trademark Office						Atty. Docket No. P23689	Serial No. 10/646,788		
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use several sheets if necessary)								Applicant Hiroshi NOMURA			
								Filing Date August 25, 2003	Group 2872		
U.S. PATENT DOCUMENTS											
EXAMINER INITIAL		DOCUMENT NUMBER					DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
		2004	/0	0	4	2	0	9	5	03/04/04	NOMURA
		2004	/0	0	4	2	0	9	3	03/04/04	NOMURA
		2004	/0	0	6	2	5	3	6	04/01/04	NOMURA
		2004	/0	0	5	1	9	6	8	03/18/04	NOMURA
		2004	/0	0	5	1	9	7	0	03/18/04	NOMURA
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			4	5	2	5	0	5	0	06/25/85	OHASHI
			4	6	4	3	5	5	5	02/17/87	WAKABAYASHI
			4	7	2	1	9	7	2	01/26/88	WAKABAYASHI
			4	7	9	2	8	2	2	12/20/88	AKIYAMA et al.
			5	8	1	8	6	4	7	10/06/98	NISHIO et al.
			6	0	3	1	9	9	8	02/29/00	SHONO
			4	4	5	1	1	2	9	05/29/84	IKARI et al.
			4	6	4	3	5	5	4	02/17/87	OGAWA
EXAMINER										DATE CONSIDERED	9/17/04

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U.S. PATENT DOCUMENTS										
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		4	7	7	1	3 0 3	09/13/88	MATSUMOTO et al.	1	/
		4	8	8	7	1 0 7	12/12/89	NAKAMURA et al.		
		5	1	3	6	3 2 4	08/04/92	TSUBOI et al.		
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		5	8	3	2	3 2 6	11/03/98	TANAKA		
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		4	9	9	3	8 1 5	02/19/91	YAMAZAKI et al.		
		5	7	3	1	9 1 3	03/24/98	IMANARI		
		5	7	3	9	9 6 2	04/14/98	ASAKURA et al.		
	2003	0	1	5	6	8 3 2	08/21/03	NOMURA et al.		
		5	5	8	7	7 5 4	12/24/96	KATAYAMA et al.		
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FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER					DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES NO
		5	8	1	4	5	9 3 0	08/31/83	JAPAN		
		6	1	-	6	9	0 0 2	04/09/86	JAPAN		
		6	1	2	7	0	7 3 7	12/01/86	JAPAN		
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		6	-	1	8		7 7 7	01/28/94	JAPAN		X
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		58	-	1	6	2	9 1 4	09/27/83	JAPAN		
		0	6	3	4		6 8 0	01/18/95	E.P.O.		

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

	1	English Language Abstract of JP 58-10708.
	2	English Language Abstract of JP 2003-207709.
	3	English Language Abstract of JP 2002-277719.
	4	English Language Abstract of JP 10-282394.
	5	English Language Abstract of JP 58-162914.

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<i>[Signature]</i>		5	0	8	6	3	1	2	02/04/92	TANAKA et al.				
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<i>[Signature]</i>		6	0	6	9	7	4	5	05/30/00	FUJII et al.				
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